AMENDMENTS TO THE CLAIMS

Claim 1. (PREVIOUSLY PRESENTED) A wheel, comprising:

a peripheral wheel rim;

a central hub with a hub flange;

a plurality of spokes extending between the rim and hub, wherein said spokes have a first portion connected to said rim and a second portion opposed to said first portion; wherein at least one of said spokes is a duplex spoke, including two structural spans, each extending between said rim and said hub with a common portion connected to said hub flange;

wherein said at least one duplex spoke includes engagement means having a non-uniform region of variable cross section geometry at said common portion to engage said hub flange and said hub flange includes engagement means to engage said duplex spoke engagement means;

and wherein said hub flange engagement means includes means to prevent axial and tangential movement between the hub flange and the duplex spoke engagement means.

Claim 2. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said wheel is a tension-spoke wheel, including spoke pre-tension.

Claim 3. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said duplex spoke is assembled to said hub flange in a generally radial direction for connection between said duplex spoke and said hub flange.

Claim 4. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said duplex spoke is assembled to said hub flange in a generally axial direction for connection between said duplex spoke and said hub flange.

Claim 5. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said duplex spoke is assembled to said hub flange in a generally tangential direction for connection between said duplex spoke and said hub flange.

Claim 6. (CURRENTLY AMENDED) A wheel according to Claim 12, wherein said hub flange includes a reinforcement element, wherein said reinforcement element provides reinforcement to the hub flange to resist spoke tension loads induced by said duplex spokes.

Claim 7. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said two structural spans of said duplex spokes are axially offset from each other.

Claim 8. (CANCELLED)

Claim 9. (CANCELLED)

Claim 10. (PREVIOUSLY PRESENTED) A wheel according to Claim 7, wherein the distance of said axial offset is generally equal to the axial cross-sectional thickness of said duplex spoke in the region of at least one of said structural spans.

Claim 11. (PREVIOUSLY PRESENTED) A wheel according to Claim 7, wherein the distance of said axial offset is greater than the axial cross-sectional thickness of said duplex spoke in the region of at least one of said structural spans.

Claim 12. (PREVIOUSLY PRESENTED) A wheel according to Claim 7, wherein said duplex spokes includes a clockwise radiating span and a counterclockwise radiating span and wherein the clockwise radiating span of a first of said duplex spokes crosses past the counterclockwise span of a second of said duplex spokes.

Claim 13. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said engagement means of said duplex spoke has matched surface-to-surface contact with said engagement means of said hub flange.

Claim 14. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said duplex spoke includes a kink to create the engagement means of said duplex spoke.

Claim 15. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, including an angle between said first and second structural spans wherein said angle, as measured radially outboard of said hub flange, is greater than or equal to 180 degrees.

Claim 16. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, including an angle between said first and second structural spans wherein said angle, as measured radially outboard of said hub flange, is less than 180 degrees.

Claim 17. (CANCELLED)

Claim 18. (PREVIOUSLY PRESENTED) A wheel according to Claim 49, wherein said two structural spans of said duplex spoke are axially offset from each other.

Claim 19. (PREVIOUSLY PRESENTED) A wheel according to Claim 49, wherein said engagement means on said overmolded slug is generally perpendicular to at least one of said structural spans of said duplex spoke.

Claim 20. (PREVIOUSLY PRESENTED) A wheel according to Claim 49, wherein said engagement means on said overmolded slug extends in a generally axial direction.

Claim 21. (PREVIOUSLY PRESENTED) A wheel according to Claim 49, wherein said engagement means on said overmolded slug has matched surface-to-surface contact with said engagement means on said hub flange.

Claim 22. (PREVIOUSLY PRESENTED) A wheel according to Claim 49, wherein said overmolded slug constitutes a region of enlarged cross-section geometry as compared to the cross section geometry of the structural span of said duplex spoke.

Claim 23. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said duplex spoke includes at least two of said duplex spoke engagement means and wherein said hub flange includes at least two of said hub flange engagement means and wherein a first of said engagement means of said duplex spoke is engaged to a first of said engagement means of said hub flange to prevent axial and tangential movement between said duplex spoke and said hub flange in one tangential direction and wherein a second of said engagement means of said duplex spoke is engaged to a second of said engagement means of said hub flange to prevent axial and tangential movement between said duplex spoke and said hub flange to prevent axial and tangential movement between said duplex spoke and said hub flange in the opposite tangential direction.

Claim 24. PREVIOUSLY PRESENTED) A wheel according to Claim 23, wherein said at least two engagement means of said hub flange are axially staggered with respect to each other.

Claim 25. (PREVIOUSLY PRESENTED) A wheel according to Claim 23, wherein at least two of said engagement means of said hub flange are arranged to create a wedging engagement with at least two of said engagement means of said duplex spoke.

Claim 26. (PREVIOUSLY PRESENTED) A wheel according to Claim 25, including spoke pre-tension, wherein said spoke pre-tension serves to press said at least two engagement means of said duplex spoke against said at least two engagement means of said hub flange to augment said wedging engagement.

Claim 27. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said hub flange includes an open cavity for engagement with said duplex spoke.

Claim 28. (PREVIOUSLY PRESENTED) A wheel according to Claim 27, wherein said open cavity includes two open ends, with said first of said structural spans extending through a first of said open ends and a second of said structural spans extending through a second of said open ends.

Claim 29. (PREVIOUSLY PRESENTED) A wheel according to Claim 27, wherein said open cavity includes a generally radially extending spoke bracing surface, wherein said duplex spoke contacts and is engaged to said spoke bracing surface.

Claim 30. (PREVIOUSLY PRESENTED) A wheel according to Claim 29, including at least two of said spoke bracing surfaces, wherein a first of said structural spans of said duplex spoke contacts a first of said spoke bracing surfaces and wherein a second of said structural spans of said duplex spoke contacts a second of said spoke bracing surfaces.

Claim 31. (PREVIOUSLY PRESENTED) A wheel according to Claim 27, wherein said open cavity includes at least two recesses, wherein a first of said recesses is mated with a first structural span of said duplex spoke and wherein a second of said recesses is mated with a second structural span of said duplex spoke.

Claim 32. (CANCELLED)

Claim 33. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said hub flange is made of polymeric material.

Claim 34. (PREVIOUSLY PRESENTED) A wheel according to Claim 33, wherein said polymeric material includes reinforcement fibers.

Claim 35. (PREVIOUSLY PRESENTED) A wheel according to Claim 1, wherein said duplex spoke includes a continuous structural element, wherein said continuous structural element includes said two structural spans and includes at least a portion of said common portion.